

Gulf of Mexico Harmful Algal Bloom Bulletin

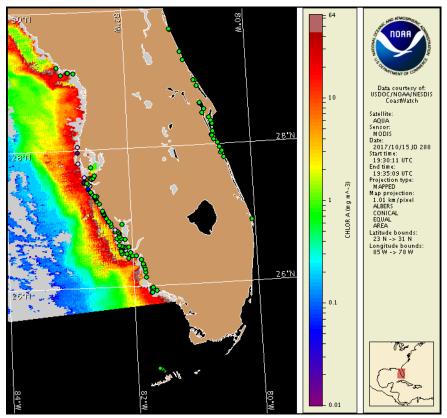
Region: Southwest Florida Monday, 16 October 2017

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Tuesday, October 10, 2017



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from October 6 to 12: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Florida Fish and Wildlife Conservation Commission (FWC) Fish and Wildlife Research Institute. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

https://tidesandcurrents.noaa.gov/hab/hab_publication/GOMX_HAB_Bulletin_Guide.pdf

Detailed sample information can be obtained through FWC Fish and Wildlife Research Institute at: http://myfwc.com/redtidestatus

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit at: https://tidesandcurrents.noaa.gov/hab/gomx.html

Conditions Report

Karenia brevis (commonly known as Florida red tide) ranges from not present to low concentrations along the coast of southwest Florida, and is not present in the Florida Keys. No respiratory irritation is expected alongshore southwest Florida Monday, October 16 through Monday, October 23. For recent, local observations and data check Mote Marine Laboratory Daily Beach Conditions (http://visitbeaches.org/) and the Florida Fish and Wildlife Conservation Commission Red Tide Status (http://myfwc.com/redtidestatus).

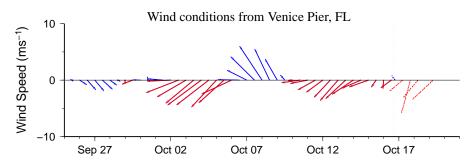
Analysis

Recent samples collected alongshore southwest Florida from Pinellas to Monroe counties, including the Florida Keys, indicate *Karenia brevis* ranges from 'not present' to 'low a,' with the highest concentrations present at Ana Maria Island alongshore southern Manatee County (FWRI, MML, SCHD, CCPCD; 10/6-10/12). Detailed sample information and a summary of impacts can be obtained through FWC Fish and Wildlife Research Institute at: http://myfwc.com/redtidestatus.

Recent ensemble imagery (MODIS Aqua, 10/15 shown left) shows elevated to very high chlorophyll (2 to >20 μ g/L) along- and offshore southwest Florida from Pinellas to Monroe counties, with the optical characteristics of *K. brevis*.

Forecasted winds today through Friday may decrease the potential for *K. brevis* bloom formation at the coast.

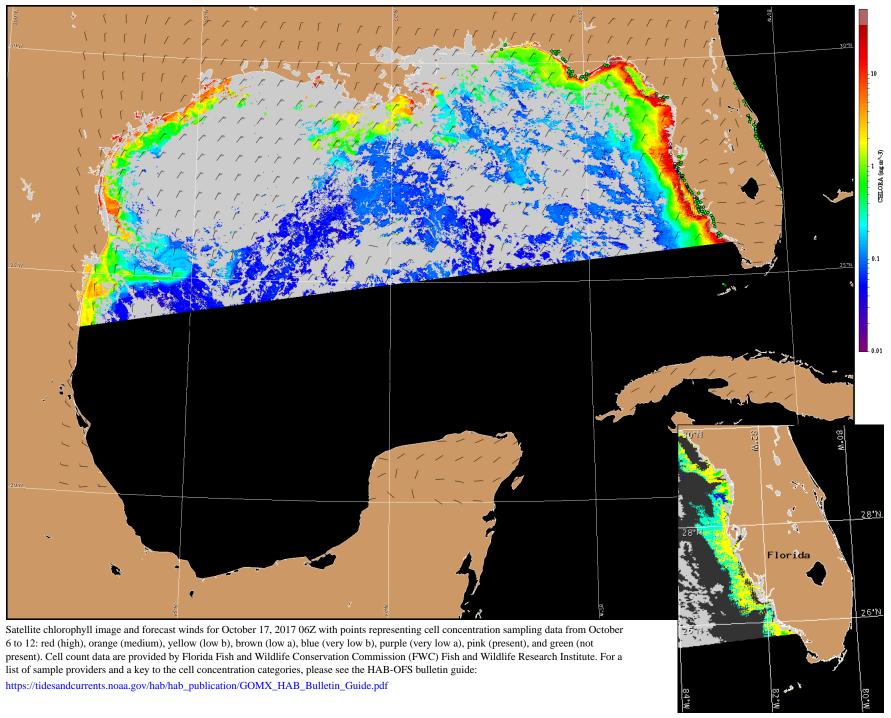
Ludema, Keeney



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

Wind Analysis

Englewood to Tarpon Springs (Venice): East winds today (5-10kn, 3-5m/s) becoming north to northeast winds (10-20kn, 5-10m/s) Monday evening through Friday.



Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).